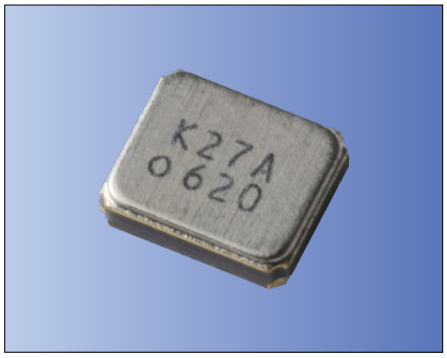
Crystal Units
Surface Mount Type CX1210SB

1.2 × 1.0mm for Consumer Products/ Mobile Communications



RoHS Compliant
PSL: R4Y MSL1

How to Order

CX1210SB 27120 □□ □ □ □ CC
① ② ③④ ⑤ ⑥ ⑦ ⑧

Packaging
(Tape & Reel 1000/ 3000/ 12000/ 21000pcs./ reel)

①Series (Type and Size)
②Frequency (24000 to 80000kHz)
③④Load Capacitance (Unit:pF) Ex.: D1:8.1pF

③Integer part	
D	8
E	9
F	10
G	11
H	12
Z	Special suffix

④After the decimal point	
0	.0
1	.1
2	.2
3	.3
4	.4
5	.5
6	.6
7	.7
8	.8
9	.9

⑤Frequency Tolerance

F	±10×10⁻⁶
G	±15×10⁻⁶
H	±20×10⁻⁶
J	±25×10⁻⁶
K	±30×10⁻⁶
M	±40×10⁻⁶
P	±50×10⁻⁶
W	All Over
Z	Special suffix

⑥Operating Temp. Range ⑦Frequency Temp. Stability

⑥ \ ⑦		F ±10ppm	J ±15ppm	L ±20ppm	R ±40ppm	S ±50ppm
G	-20 to 75°C	✓	✓	✓	✓	✓
L	-30 to 85°C		✓	✓	✓	✓
P	-40 to 85°C			✓	✓	✓
R	-40 to 105°C				✓	✓
S	-40 to 125°C				✓	✓

⑧Individual Specification (STD Specification is "CC" .)

Features

- Ultra-miniature and low profile (1.2 × 1.0 × 0.35mm max.)
- Crystal unit for mobile communication Systems.
- Reflow compatible
- Using ceramic package resulting in high reliability

Applications

- Consumer Products
- Wireless Comm. (Mobile Communications, Bluetooth®, Wireless LAN)
  *Bluetooth® is a registered trademark of Bluetooth SIG, Inc.
- Industrial Equipment

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f_nom	24000 to 80000	kHz	Please contact us for other frequency range.
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f_tol	± 10	× 10⁻⁶	25° C ± 3° C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10 μ W(100 μ W max.)	μ W	
Operating Temp. Range	T_use	− 30 to +85	° C	
Storage Temp. Range	T_stg	− 40 to +105	° C	
Frequency Temp. Characteristics	f_tem	± 12	× 10⁻⁶	Freq. deviation from the value at 25° C
Shunt capacitance	C0	2.0max.	pF	

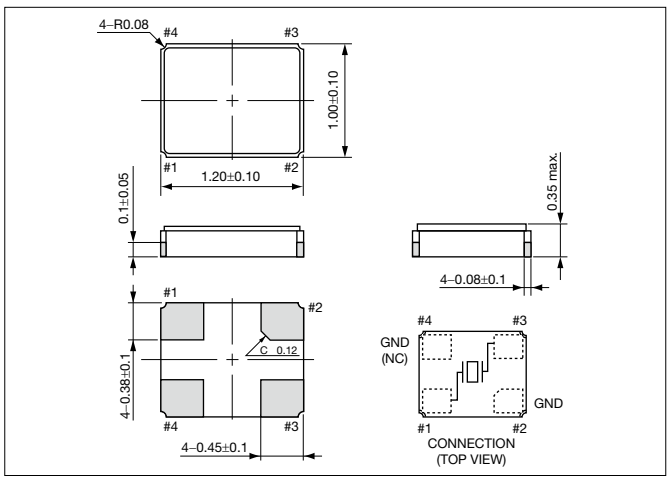
Please contact us for other specifications.

◆Table 1
Motional Series Resistance ESR (C1)

Frequency (MHz)	ESR (Ohm)
24≦F<32	100
32≦F<37.4	80
37.4≦F<48	60
48≦F≦80	50

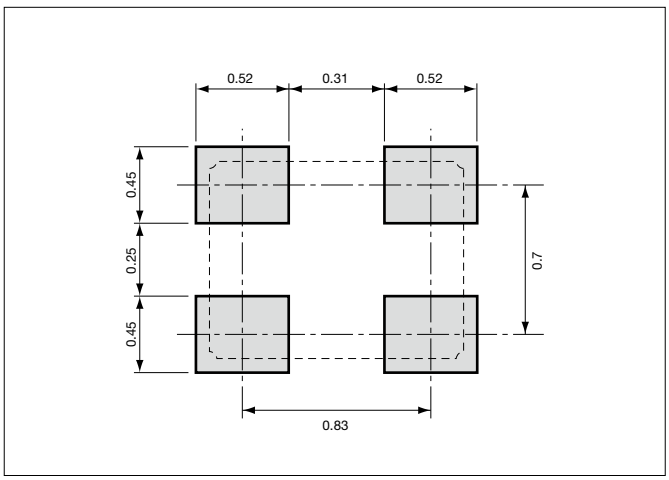
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



As of October 2025

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